IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A process for the continuous preparation of perfluorobutylsulfonyl fluoride from a starting material selected from the group consisting of sulfolane, sulfolene, butylsulfonyl fluoride, butylsulfonyl chloride, and mixtures thereof, the process [perfluorinated organic compounds] comprising subjecting the starting material to electrochemical fluorination with an electrolyte comprising hydrogen fluoride [electrochemically fluorinating a non-fluorinated or a partially fluorinated organic compounds with an electrolyte comprising hydrogen fluoride that], wherein the starting material is added continuously and the electrolyte has a quantity of charge that ranges from about 5 Ah per kg of electrolyte to about 600 Ah per kg of electrolyte.

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2. (Original) The process according to Claim 1, wherein the quantity of charge is kept in the range from about 50 to about 200 Ah per kg of electrolyte.

3. Previously cancelled.

4-7. Currently Cancelled.

8. (Original) The process according to Claim 1, wherein the current density at which the electrolysis is carried out is from about 5 to about 40 mA/cm^2 and the voltage is from about 5 to about 10 volts.

9. Currently Cancelled.

10. (Original) The process according to Claim 1, wherein the hydrogen fluoride used has an arsenic content of less than about 10 ppm.

11. (Previously Added) A process for the continuous preparation of perfluorinated organic compounds comprising electrochemically fluorinating a non-fluorinated or a partially fluorinated organic compound with an electrolyte comprising hydrogen fluoride that has a quantity of charge that ranges from about 5 Ah per kg of electrolyte to about 600 Ah per kg of electrolyte, wherein the hydrogen fluoride has a water content of less than about 300 ppm, a sulfuric acid content of less than about 300 ppm, a sulfur dioxide content of less than about 30 ppm and an arsenic content of less than about 30 ppm.